

Healthy Iowans 2017-2021

Iowa's Health Improvement Plan



Environmental Health

REVISED August 2019



Coordinated by the
Bureau of Public Health Performance
Iowa Department of Public Health



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FOCUS AREA: Environmental Health

What Health Issues Are Included

Water Quality
Radon

Environmental Health Measures of Health Improvement

EH-1 Increase the percentage of drinking and recreational waters monitored for quality.

| <u>Rivers and Streams</u> | <u>Lakes and Reservoirs</u> | <u>Wetlands</u> |
|---------------------------|-----------------------------|----------------------|
| Target: 56% | Target: 65% | Target: 88% |
| Baseline: 52% [2016] | Baseline: 61% [2016] | Baseline: 83% [2016] |

Data Source: Iowa Department of Natural Resources. Iowa Water Quality Assessments: ADBNet. 2016 Assessment Summary.
<https://programs.iowadnr.gov/adbnet/>

EH-2 Increase the percentage of assessed drinking and recreational waters that fully meet water quality standards.

| <u>Rivers and Streams</u> | <u>Lakes and Reservoirs</u> | <u>Wetlands</u> |
|---------------------------|-----------------------------|----------------------|
| Target: 21% | Target: 31% | Target: 55% |
| Baseline: 19% [2016] | Baseline: 29% [2016] | Baseline: 52% [2016] |

Data Source: Iowa Department of Natural Resources. Iowa Water Quality Assessments: ADBNet. 2016 Assessment Summary.
<https://programs.iowadnr.gov/adbnet/>

See also Chronic Disease Measures of Health Improvement for measures related to radon: reducing lung cancer incidence (**CD-6**) and the lung cancer death rate (**CD-2**).

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Iowa Health Issue: Water Quality

Iowa Counties with Local Strategies

Buchanan, Dubuque, Hardin, Keokuk, Winneshiek

These community health improvement plans are available on the Iowa Department of Public Health, Community Health Needs Assessment and Health Improvement Planning (CHNA&HIP) website: <https://idph.iowa.gov/chnahip/health-improvement-plans>

Goals, Objectives & Strategies

Water Quality

Goal #1 Ensure a healthy and safe environment for work and play.

Alignment with National Plans

Healthy People 2020, Environmental Health <https://www.healthypeople.gov/2020/topics-objectives/topic/environmental-health>

Alignment with State / Other Plans

Iowa Department of Natural Resources (DNR) Strategic Plan 2017-2020
https://www.iowadnr.gov/Portals/idnr/uploads/files/strategicplan_factsheet.pdf

Water Quality

Objective 1-1 Provide consistent and fair regulatory assistance to increase the percentage of regulated public water supplies meeting health-based drinking water standards.

| Baseline Year | Baseline Value | Target Year | Target Value |
|---------------|----------------|--------------|--------------|
| 2015 | 94.5% | 2017 2019 | 97% |

Data Source & Location | Iowa Public Drinking Water Program Annual Compliance Report
www.iowadnr.gov

Water Quality

Strategy 1-1.1 Spread awareness of how water quality impacts Iowans' health, the environment, and the economy through all water programs.

Strategy Type
Individual/interpersonal-focused

Strategy Source & Location

Iowa Department of Natural Resources Strategic Plan

Who's Responsible
DNR Environmental Services

Target Date
Jul 1, 2021

Water Quality

Strategy 1-1.2 Build and expand partnerships with environmental groups, public health agencies, communities, and industry organizations to improve understanding and management of animal feeding operations impacting water quality.

Strategy Type
Community-focused

Strategy Source & Location

Iowa Department of Natural Resources Strategic Plan

Who's Responsible
DNR Environmental Services

Target Date
Jul 1, 2021

Water Quality

Strategy 1-1.3 Educate customers to fully use financing opportunities through the State Revolving Fund and other sources for water and wastewater system improvement.

Strategy Type
Individual/interpersonal-focused

Strategy Source & Location

Iowa Department of Natural Resources Strategic Plan

Who's Responsible

DNR Environmental Services

Target Date

Jul 1, 2021

Water Quality**Goal #2** Provide clean water to Iowa citizens and reduce health risks by eliminating contaminants.Alignment with National PlansNational Water Quality Initiative <https://www.epa.gov/nps/nonpoint-source-national-water-quality-initiative>Alignment with State / Other PlansCleanwater Iowa <http://www.cleanwateriowa.org/>Water Quality**Objective 2-1** On an annual basis, reduce the health risk across the state by assessing and managing heavy metal exposure (arsenic and lead).Baseline
Year

2017

Baseline
Value0 - Not
assessing/
managingTarget
Year

2021

Target
Value1 -
Assessing/
managing

Data Source & Location | New objective, to be developed.

Water Quality**Strategy 2-1.1** Engage partners to identify heavy metal exposure in water resources.Strategy Type

Professional/provider-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory, Center for Health Effects of Environmental Contamination

Target Date

Jul 1, 2021

Water Quality**Strategy 2-1.2** Provide outreach and educate communities for a monitoring program and best practices.Strategy Type

Professional/provider-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory

Target Date

July 1, 2018

Water Quality**Strategy 2-1.3** Develop a mitigation plan and remediation practices.Strategy Type

Policy-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory and Iowa Department of Public Health, Bureau of
Environmental Health Services

Target Date

Sep 1, 2020

Water Quality**Objective 2-2**

Mitigate health risk across the state by monitoring pesticide and
pharmaceutical residue in drinking water and human bodies.

Baseline
Year

2017

Baseline
Value

0 - No
monitoring

Target
Year

2020

Target
Value

1 -
Monitoring

Data Source & Location | New objective, to be developed.

Water Quality**Strategy 2-2.1**

Develop analytical methodologies for a bio-monitoring
program in pesticides and pharmaceuticals.

Strategy Type

Professional/provider-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory

Target Date

Jan 1, 2019

Water Quality**Strategy 2-2.2**

Establish a bio-monitoring program for pesticide and
pharmaceutical residues.

Strategy Type

Policy-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory

Target Date

Jan. 1, 2019

Water Quality**Strategy 2-2.3**

Engage partners to conduct risk assessments.

Strategy Type

Professional/provider-focused

Strategy Source & Location

New strategy

Who's Responsible

State Hygienic Laboratory, Center for Health Effects of Environmental Contamination

Target Date

Jan 1, 2021

Water Quality

Goal #3 Increase efforts to clean up Iowa's surface and ground waters and prevent pollution, with a focus on protecting drinking water and popular recreation waters.

Alignment with National Plans

Clean Water Act (1972) with amendments <https://www.epa.gov/laws-regulations/summary-clean-water-act>

Alignment with State / Other Plans

River Restoration Strategy (2015) <http://www.iowadnr.gov/Environmental-Protection/Water-Quality/River-Restoration>

Iowa Nutrient Reduction Strategy (2013) <http://www.nutrientstrategy.iastate.edu/>

Iowa's Nonpoint Source Management Plan (2012)

<http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Watershed-Improvement/Nonpoint-Source-Plan>

Water Quality

| Objective 3-1 | Secure passage of a long-term, sustainable and accountable source of funding to address Iowa's water quality and quantity challenges. | Baseline Year | Baseline Value | Target Year | Target Value |
|---------------|---|---------------|----------------|-------------|--------------|
| | | 2016 | 0 | 2018 | 1 |

Data Source & Location | Legislative tracking, <http://www.iowaswaterandlandlegacy.org/>

Water Quality

Strategy 3-1.1 Advocate for passage of a 3/8ths cent sales tax to fund Iowa Natural Resources and Outdoor Recreation Trust Fund or other source of new, dedicated, sustainable funding.

Strategy Type
Policy-focused

Strategy Source & Location

Natural Resources and Outdoor Recreation Trust Fund passed by Iowans in 2010, but never funded.

[https://ballotpedia.org/Iowa_Natural_Resources_and_Outdoor_Recreation_Trust_Fund_Amendment_1_\(2010\)](https://ballotpedia.org/Iowa_Natural_Resources_and_Outdoor_Recreation_Trust_Fund_Amendment_1_(2010))

Who's Responsible

Iowa's Water and Land Legacy Coalition, Iowa Environmental Council

Target Date

May 1, 2017

Water Quality

Strategy 3-1.2 Support the creation of an Iowa Watershed Investment Board to provide management and oversight for investment of Iowa's water resources in a coordinated, statewide approach focused on achieving multiple benefits and leveraging funding from other state, federal, local and private sources.

Strategy Type
Policy-focused

Strategy Source & Location

Healthy Lands, Healthy Waters January 2016

<http://www.iaenvironment.org/news-resources/publications/water-and-land-publications>

Who's Responsible

Iowa Environmental Council

Target Date

Jul 1, 2017

Water Quality

| Objective 3-2 | Advocate for the strengthening of rules for concentrated livestock feeding operations (CAFOs), especially in sensitive areas such as karst (underground limestone region with sinks and underground streams) and wellhead protection zones and watershed areas above public lakes where lax siting and manure management rules are most likely to threaten drinking and recreation waters. | Baseline Year | Baseline Value | Target Year | Target Value |
|---------------|--|---------------|----------------|-------------|--------------|
| | | 2017 | 0 | 2018 | 1 |

Data Source & Location | New objective, to be developed.

Water Quality

Strategy 3-2.1 Support a 5-year temporary suspension of approval for new CAFOs or expansion of existing CAFOs in known karst areas while state rules governing siting and manure management in areas such as karst, identified as posing special threats to drinking water or public health, undergo review by a blue-ribbon stakeholder panel that includes representatives of counties, cities, environmental and public health organizations, and agricultural groups.

Strategy Type
Policy-focused

Strategy Source & Location

New strategy

Who's Responsible

Iowa Environmental Council and partners

Target Date

Jan 1, 2017

Water Quality

Objective 3-3 Support expansion of water quality monitoring for drinking and recreational waters with monitoring results available to the public.

| Baseline Year | Baseline Value | Target Year | Target Value |
|---------------|----------------|-------------|--------------|
| 2017 | 0 | 2018 | 1 |

Data Source & Location | Iowa's Ambient Water Quality Monitoring and Assessment Program
<http://www.iowadnr.gov/Environmental-Protection/Water-Quality/Water-Monitoring>

Water Quality

Strategy 3-3.1 Assure that watershed management authorities and other watershed efforts incorporate the widely accepted watershed approach that includes assessment, monitoring, and public education.

Strategy Type
Policy-focused

Strategy Source & Location

New strategy

Who's Responsible

Iowa Environmental Council and council partners

Target Date

Jan 1, 2019

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Water Quality

Goal #4 Ensure that Iowans using private wells for water supply have a safe water supply.

Alignment with National Plans

N/A

Alignment with State / Other Plans

N/A

Water Quality

Objective 4-1 Each year, complete testing of private wells for bacteria (coliform), nitrate, and arsenic.

| Baseline Year | Baseline Value | Target Year | Target Value |
|---------------|---|-------------|---|
| 2016 | Bacteria 8,800 Nitrate 6,700 Arsenic 1,040 | 2021 | Bacteria 10,000 Nitrate 6,500 Arsenic- 1,150 |

Data Source & Location | Iowa Public Health Tracking Portal, Private Well Water Data <https://pht.idph.state.ia.us/Pages/default.aspx>

Water Quality

Strategy 4-1.1 Promote the use of Grants to Counties money for private well testing.

Strategy Type
Individual/interpersonal-focused

Strategy Source & Location
Grants to Counties Water Well Program
<http://idph.iowa.gov/ehs/grants-to-counties>

Who's Responsible
Iowa Department of Public Health, Environmental Health Services Bureau

Target Date
Jun 1, 2021

Water Quality

Strategy 4-1.2 Track the progress of private well testing from the Iowa Public Health Tracking Portal.

Strategy Type
Policy-focused

Strategy Source & Location
Iowa Department of Public Health, Environmental Health Services Bureau strategy

Who's Responsible
Iowa Department of Public Health, Environmental Health Services Bureau

Target Date
Jun 1, 2021

Iowa Health Issue: Radon

Iowa Counties with Local Strategies

Buchanan, Chickasaw, Greene, Mitchell, Plymouth, Pocahontas, Pottawattamie, Sioux, Winnebago, Winneshiek

These community health improvement plans are available on the Iowa Department of Public Health, Community Health Needs Assessment and Health Improvement Planning (CHNA&HIP) website: <https://idph.iowa.gov/chnahip/health-improvement-plans>

Goals, Objectives & Strategies

Radon

Goal #1 See Chronic Disease: Cancer, Goal 3, Objective 3-3, Strategies 3-3.1, 3-3.2, and 3-3.3

Alignment with National Plans

Alignment with State / Other Plans

Radon

Objective 1-1 See Chronic Disease: Cancer, Goal 3, Objective 3-3.

Baseline Year

Baseline Value

Target Year

Target Value

Data Source & Location

Radon

Strategy 1-1.1 See Chronic Disease: Cancer, Goal 3, Objective 3-3, Strategies 3-3.1, 3-3.2, and 3-3.3.

Strategy Type

Strategy Source & Location

Who's Responsible

Target Date

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